

## WORK THE MAMMOTH FORD PLANT DID TO HELP WIN THE WAR

By ED RUDOLPH

Without going into particulars, the following items will give some idea of the value of the Ford Motor company to the government of the United States in its call for the sinews of war:

More than 2,000,000 steel helmets.  
Order for 5,000 12-cylinder Liberty motors. Over 1,500 had been delivered when the armistice was signed, and we were just striking our producing capacity.

155 mm. guns. Something over 8,000 delivered.  
Order for 112 "Eagle" boats, 200 feet long, 25 feet beam. Something like 25 delivered, when the order was reduced to 62. The balance will be finished by the first of August.  
More than 8,000 trucks. More than 25,000 regular Ford cars. More than 6,000 ambulances.  
Four hundred thousand cylinders for Liberty motors. Because of the superiority of the work on this article, the government placed the order with the Ford Motor company to make all the cylinders for all the Liberty motors made in America. The original order was practically completed when the armistice was signed, and a new order for 300,000 had just been entered.  
Seven hundred thousand bearings for Liberty motors. Once again the government recognized the superior quality of the bearings made by this company and placed the order with us for all the bearings for all the Liberty motors made in the United States. On this order 400,000 bearings had been delivered.  
Seven hundred thousand cylinder

forings for Liberty motors. Once again the government recognized the superiority of Ford work, and placed orders with the company for all the cylinder forgings for all the Liberty motors made in America. Over 400,000 had been delivered.  
A large volume of experimental work was done in building three-ton military tanks, and the government had just placed orders for 15,000 of the small two-man military tanks, and 3,000 of the six-ton. Cancellation came before more than a dozen or so tanks had been delivered. But the foundation had been laid and the superstructure almost completed for an enormous building in which we intended making tanks alone. Of course, this building comes in mighty useful in the enlargement of our business.  
Motion picture reels in behalf of Liberty loans, Red Cross and patriotic fund work were made by the company and supplied to the government in sufficient quantities to serve the entire United States in motion pictures. Motion picture reels in volumes sufficient to serve the armies of the United States in France, Italy and Palestine were

furnished by the motion picture department of the Ford Motor company. We also did more than \$1,000,000 of work in the production of special devices for the naval department of the British government.  
We also furnished the government 275 skilled mechanics for work in France.  
Also, through our chemical laboratory we co-operated with the manufacturers of gas masks for the United States army.  
An average of 34,000 men and women were employed by the main factory at Highland Park; 6,800 men at the ship-building plant on the River Rouge; 4,000 men employed at the new blast furnace, in course of construction on the Rouge; 250 men employed at the carburetor plant, or an average of 45,000 employees, practically all on 100 per cent government work, under a standard eight-hour day and a minimum wage of \$5 per day.

### CARING FOR THE TUBES

The tube should be rolled flat with soft cloth between the layers; a strip of cotton flannel rolled up with the tube is excellent. The roll should then be placed in a thick cloth bag with the stem protruding and the mouth of the bag tied around the stem. It is a good plan to put talcum powder in the bag.

### BATTERY READINGS

In taking battery readings with the hydrometer the operation should be performed before the distilled water is added to the solution, which will otherwise be diluted and a wrong reading given. Also after the water has been put in it takes some time to mix with the acid. The water being lighter stays on top, and if the hydrometer is used say an hour after the water has been added, it will take up only a weak solution, which is not the real one.

### VALVE STEM GUIDE BUSHINGS

In engines not fitted with special valve stem guide bushings excessive wear of the guide and consequently valve stem side play and oil leakage may be prevented by reaming the side and fitting a bronze bushing. The bushing may be obtained already machined from any supply house. In fitting the valve should enter on the tappet, otherwise there will be a side thrust against the bushing and it will wear eccentrically.

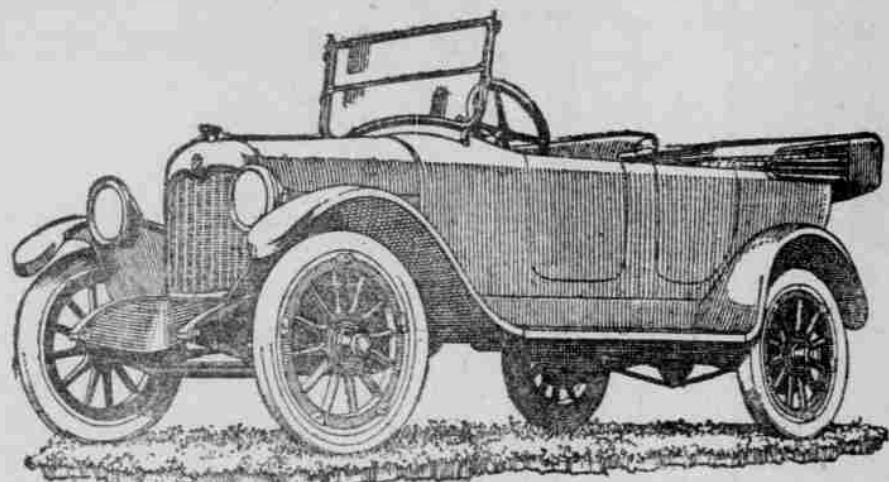
### GOODYEARS IN NON-STOP RUN

A noteworthy performance that is being acclaimed in automobile circles is the "sealed high gear" drive of a Maxwell car on Goodyear cord tires, in which 4,241 miles were covered in a continuous 7 days' run, driving day

and night. A speed of 25 miles an hour was maintained for 163 hours—the duration of the test. When the tremendous strains on transportation and tires incidental to the starting and

stopping of the car in its tour of the city streets of Los Angeles, where the performance was made, are considered the record established is a great credit to both the car and the tires.

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## Maxwell—

### A Car of Assured Reliability

THE reliability of every Maxwell is assured by the volume produced. One model quantity production involves the investment of millions of dollars in special machinery, plants, laboratories, etc., before a single car is produced.

Therefore, the basic design must be right—right beyond any question—before this special equipment is installed.

And after production starts absolute accuracy in every part must be assured to prevent delays, waste, age, hand-labor—things we can't afford.

No tools are too expensive—no precautions too elaborate—to assure this result.

This was our original plan and it has been consistently followed in producing the 300,000 Maxwells now on the roads of the world.

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Size.	Plain Tread.	Gray.	Red.
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30x3	.....	10.00	2.40
30x3 1/2	.....	14.80	2.85
31x3 1/2	.....	.....	2.95
32x3 1/2	.....	16.25	3.00
31x4	.....	22.50	3.80
32x4	.....	22.00	3.85
33x4	.....	23.00	4.00
34x4	.....	24.00	4.25
35x4	.....	25.50	4.50
36x4	.....	27.50	4.75
34x4 1/2	.....	35.00	5.30
35x4 1/2	.....	30.50	5.40
36x4 1/2	.....	35.00	5.65
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## Change of Santa Fe Passenger Train Schedules

### EFFECTIVE SUNDAY, MAY 4th

Following is New Schedule

READ DOWN				READ UP			
TRAIN No. 4	TRAIN No. 2	THE PHOENIX	STATIONS	THE PHOENIX	TRAIN No. 1	TRAIN No. 3	
7:45 am	5:25 pm	6:00 pm	Lv. Phoenix .....Ar	7:35 am	9:45 am	9:20 pm	
9:50 am	7:25 pm	7:52 pm	Ar. Wickenburg ..Lv	8:52 am	7:50 am	7:28 pm	
9:50 am	7:25 pm	8:05 pm	Ar. Prescott .....Lv	8:52 am	7:50 am	7:18 pm	
2:05 pm	11:40 pm	Through	Lv. Prescott .....Lv	Through	4:12 am	3:47 pm	
2:25 pm	11:59 pm	Train	Ar. Jerome Jct. ...Ar	Train	4:00 am	3:32 pm	
4:25 pm	12:48 am	Arriving	Ar. Cedar Glade ...Ar	Leaving	3:16 am	2:49 pm	
4:20 pm	1:33 am	Los Angeles	Ar. Ash Fork ....Lv	Los Angeles	3:30 am	1:52 pm	
5:05 pm	2:20 am	8:30 am		2:00 pm	1:40 am	1:00 pm	

For Detailed Schedules and other Information Call on or Phone  
Consolidated Ticket Offices  
Adams & Central Ave. Phone 4315  
Santa Fe Station  
Phone 1825

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## DEPARTMENT STORE METHODS IN THE Plumbing Business

People wonder why it is that I can sell plumbing supplies and fixtures way under quotations other places, even the mail order houses "can't touch me" when it comes to quality and price.

It's using department store methods,—selling at short margin of profit—making quick turnovers. I don't keep merchandise in my shop till they get shop worn and styles are obsolete—I sell 'em.

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